

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions of claims in the application:

Listing of Claims:

1. (Currently Amended) A computer-implemented method to process a document, comprising:
 - analyzing features of a document for the presence of specific keywords, the keywords defined in a pre-set vocabulary list;
 - determining the presence of a keyword in the document that matches a keyword appearing in the pre-set vocabulary list;
 - searching the document for additional keywords related to the matching keyword to determine a context for the matching keyword;
 - generating a set of domain models[[,]] as a function of the analyzed features[[,]] that represent the document, the domain models selected to represent the document are a function of the matching keyword and the additional related keywords;
 - storing the set of domain models along with other domain models ~~associated with~~ representing other documents;
 - structuring the stored domain models so as to be searchable by a querying system;
 - and
 - retrieving a collection of domain models in response to a search performed on the document for further analysis for specific properties.
2. (Currently Amended) The method of claim 1, wherein a domain model relates to a simple type[[,]] or a complex type, and:
 - if when a property for the domain model is of the simple type, populating the domain model with a value according to the document being represented; and
 - if when a respective property type for the domain model is of the complex type, selectively adding another domain model as the value for that property, according to the document being represented.

3. (Currently Amended) The method of claim 1, further comprising:
searching the set of domain models to determine a subset of features of the document that match search criteria.
4. (Previously Presented) The method of claim 2, comprising:
analyzing the set of domain models by determining values of properties from at least one model.
5. (Currently Amended) The method of claim 1, further comprising:
describing the document as instances of the respective models of the set.
6. (Currently Amended) The method of claim 1, further comprising:
setting values in at least one of the models that represent supplemental information not in the document but is associated ~~to~~ with the document.
7. (Previously Presented) The method of claim 2, comprising:
an automated process where a list of conditions must be met in the document to populate a property with a value or set of values.
8. (Currently Amended) The method of claim 1, ~~wherein the analyzed features of the document comprises keywords[[]]~~ further comprising:
applying an algorithm to the respective properties of the retrieved collection of domain models to compute a data value relating to the collection.

9. (Currently Amended) A computer-implemented method to facilitate locating a document, comprising:
- receiving a query related to locating the document; and
 - searching across a plurality of domain models that respectively represent a plurality of documents; ~~and~~
 - identifying a set of the domain models that match criteria of the receive query[[]];
 - and
 - applying an algorithm to respective properties of the identified set of domain models to compute a data value relating to the documents represented by the identified set.
10. (Currently Amended) A system to process documents comprising:
- means for modeling a domain with a plurality of domain models;
 - means for determining the presence of a keyword in a document that matches a keyword appearing in the pre-set vocabulary list;
 - means for searching the document for additional keywords related to the matching keyword to determine a context for the matching keyword;
 - means for representing ~~respective~~ the document[[]] as a collection of at least one domain model, the domain model based at least on the matching keyword and the additional related keywords; and
 - means for populating the at least one domain model with values corresponding to properties of ~~respective~~ the document[[]] being represented.

11. (Previously Presented) A machine readable medium storing a set of instructions that, when executed by a machine, cause the machine to:
- model a domain with a plurality of domain models;
 - determine the presence of a keyword in a document that matches a keyword appearing in the pre-set vocabulary list;
 - search the document for additional keywords related to the matching keyword to determine a context for the matching keyword;
 - represent a document as a collection of at least one domain model, the domain model based at least on the matching keyword and the additional related keywords; and
 - populate the at least one domain model with values corresponding to properties of the document being represented.
12. (Cancelled)
13. (Previously Presented) The method of claim 1, comprising representing portions of the documents with respective instances of a subset of the generated domain models.
14. (Previously Presented) The method of claim 13, wherein the respective instances are computation ready representations of the portions of the documents that can be understood by a plurality of computer applications.
15. (Cancelled)
16. (Previously Presented) The method of claim 1, wherein a hierarchy of domain models are generated as a function of respective analyzed features.
17. (Previously Presented) The method of claim 9, comprising searching across the domain models in connection with locating a collection of documents.